



MEDHERANT

INTRODUCING

Ibuprofen TEPI Patch®



Ibuprofen 200 mg TEPI Patch®



- Contains 200 mg ibuprofen for delivery over 24 hours – one patch per day for up to 5 days
- For short-term symptomatic treatment of local pain in acute muscular strains, or sprains in benign traumas
- Flexible thin 12 cm x 8.5 cm adhesive patch on a backing fabric with a transparent release liner

Ibuprofen TEPI Patch® – development



- Development programme agreed with MHRA (UK) and BfArM (Germany)
- AdhexPharma (France) appointed as manufacturing partner
- Non-clinical safety studies completed with no concerns
- Phase I studies completed in 2018
 - Irritation and sensitisation – TEPI patch well tolerated
 - Pharmacokinetics – Expected levels of ibuprofen delivered
- Phase III efficacy study designed

Licensing opportunity



- Medherant seeks partners for commercialization of Ibuprofen TEPI Patch®
- Total ibuprofen market is worth about \$4.2bn
- Topical ibuprofen for local pain relief popular in Europe
- TEPI Patch® is protected by granted patents and pending patent applications

Medherant develops products for pain and CNS indications, based on its next-generation TEPI Patch® transdermal drug delivery technology. We also formulate products for third parties using this unique patch system.

To find out more please contact the Medherant team

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TEPI Patch® technology

- Revolutionary adhesive exclusively licensed to Medherant by Bostik
- Extensive patent protection
- Unique combinations of excipients and drug can be used due to the high loading capacity of the adhesive



High payload

Up to 50wt% achieved for drug + excipients

- Enables transdermal delivery of lower potency drugs
- Extended release (>24h) formulations can be developed
- Smaller and more discrete patch can be produced
- Wide range of drug compatibility – over 50 molecules soluble so far



Other benefits

Flexibility to optimise delivery

- Less residual drug in the patch on removal
- Rates of flux can be customised by adjusting the excipients to achieve a desired product profile
- Solvent-free manufacturing process



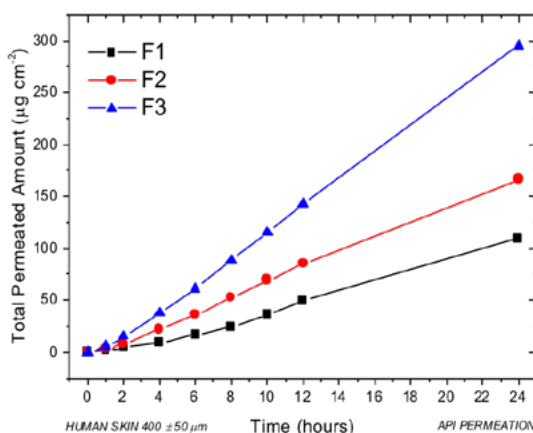
Better adhesion

Sticks even when wet

- Full dose delivered as entire patch remains in contact with the skin
- No cold-flow of adhesive around the edges of the patch
- Easy and painless to remove like a sticking plaster

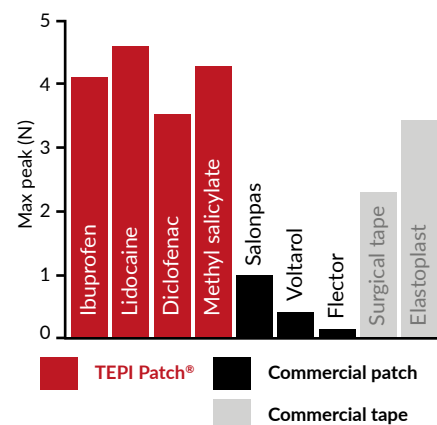


Ibuprofen permeation enhancement



Percentage of applied dose permeated
 F 3: 55%
 F 2: 36%
 F 1: 7%

Comparison of adhesion



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